

RESUME

MOHAMMAD ASIF

Assistant Professor of Zoology

● Hyderabad

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Educational Qualifications

- Doctorate, Life Sciences (Zoology), Aligarh Muslim University, Aligarh (2018).
- Post-Graduation Life Sciences (Zoology), Aligarh Muslim University, Aligarh (2007).
- Graduation, Life Sciences (Zoology), Aligarh Muslim University, Aligarh (2005).

Professional Summary

Experienced Biology faculty and Researcher with **12+ years of teaching experience** for UG, PG, **NEET and Class XI–XII (CBSE)** students. Doctorate. in Life Sciences from **Aligarh Muslim University (AMU)**. Known for **concept-based teaching, NCERT-focused preparation, and strong student mentoring**. Successfully guided students in understanding difficult Biology topics with clarity and confidence.

Awards/ Achievements

1. Awarded first prize in poster presentation in the National ConferenceSS on Impact of Environmental Xenobiotics on Human Health and Biodiversity held at Department of Zoology, Lucknow University, Lucknow, Uttar Pradesh, India from 30-31st March 2018.
2. Awarded Summer Research Fellowship Jointly by Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi and The National Academy of Sciences , India Allahabad in 2013.
3. Best oral presentation at National Conference on Insect Diversity and Systematics: Special Emphasis on Molecular Approaches held at Department of Zoology, Aligarh Muslim University, Aligarh. 27-30th October 2013.

4. Awarded Maulana Azad National Fellowship (MANF) fellowship (October 2012-2018) by University Grants Commission, Government of India, New Delhi, India.
5. Awarded first prize in poster presentation in the National Symposium on “Biodiversity, and Food Security-Challenges and Devising Strategies” organized by DSARD and IIPR, Kanpur, Held at IIPR, Kanpur from 10 to 11th December 2011
6. U.P. Minority commission Scholarship, Lucknow, 2005.

Research Experience

1. **1 Year of research experience as Research Fellow in the Ministry of environment of forest Research Project at Department of Zoology, AMU, Aligarh**
2. **5 years of Research Experience as Senior Research Fellow in the Department of Biotechnology, Ministry of India at ICAR-Unit IIPR, Kanpur**
3. 1 year of PG research experience on Project oriented dissertation on: “**Studies on predatory nematode fauna of coal field region of District, Sonbhadra Uttar Pradesh**” in the Department of Zoology. (2006-2007)
4. **1 year of project experience on “Hemipenial Morphology and its phylogenetic Signals in some Agamids lizards of south and central India” in the Centre of Ecological Sciences, Indian Institute of Sciences, Bangalore.**

Teaching Experience

1. **Assistant Professor of Zoology**
Maulana Azad National Urdu University (MANUU), Hyderabad
October 2020 – Present
2. **NEET Biology Faculty**
Aligarh Study & Guidance Centre & Duty Society Coaching, Aligarh
2012 – 2017
3. **Senior Lecturer (Biology)**
Shri Shri Ravi Shankar College, Maharashtra
2018 – 2020
4. **Lecturer & Laboratory Head (2007-2011)**
Biotechnology Research Foundation, Kanpur

Technical Proficiency

1. DNA extraction, PCR Amplification, Gel Electrophoresis, and Gel documentation.
2. Sanger based sequence interpretation, editing, and creating a consensus sequence.
3. Familiar with genetic data base “National Centre for Biotechnology Information (NCBI)”.
4. Working knowledge on various robust phylogenetic, sequence editing, and tree visualising software viz., Paup, Mega 6, 7 & Mega X, MrBayes, Chromas, BioEdit, jModelTest, FigTree, and PopArt.
5. Working knowledge on Scanning Electron Microscopy
6. Working knowledge on biogeography
7. Field experience in sampling and data collection.
8. Working knowledge on Energy Dispersal X-ray (EDX/ EDS) analysis of soil samples.

9. Analytical and detailed oriented researcher, working in the field of Ecology, Molecular taxonomy, Phylogenetics for last 16 years
10. Equipped with experiences from analytical, pathological and research laboratories
11. Skilled at developing protocols for experimental works related with Eco-toxicological, Microbial Ecology, Molecular Taxonomy.
12. Proficient in standardization of toxic compounds and their effect on model organisms especially *C. elegans*
13. Experienced in Microscopic imaging, Scanning electron microscope and Transmission electron microscope, Handling of HPLC, Flow Cytometry, Fluorescence microscopy, FTIR, CD-spectroscopy.
14. Calibrated in performing ELISA and polyacrylamide/agarose gel electrophoresis
15. Efficient in performing DNA/protein isolation, Western blot analysis
16. Competent in handling animal model (mice/New Zealand white rabbit, *C. elegans*, *Drosophila melanogaster*)
17. Deep understanding and theoretical knowledge of Ecology, Toxicology, Molecular Systematics, Phylogenetics, virology, cell biology, immunology, cancer biology and microbiology.

Additional Academic Credentials

- **UGC – SRF Awardee**
- **Author of 30+ research papers** in international journals
- **Reviewer for reputed journals** (Nature, Springer, Elsevier, Taylor & Francis, Cambridge University Press, Intech etc.,)
(*Research background ensures updated, accurate Biology teaching*)

Languages Known

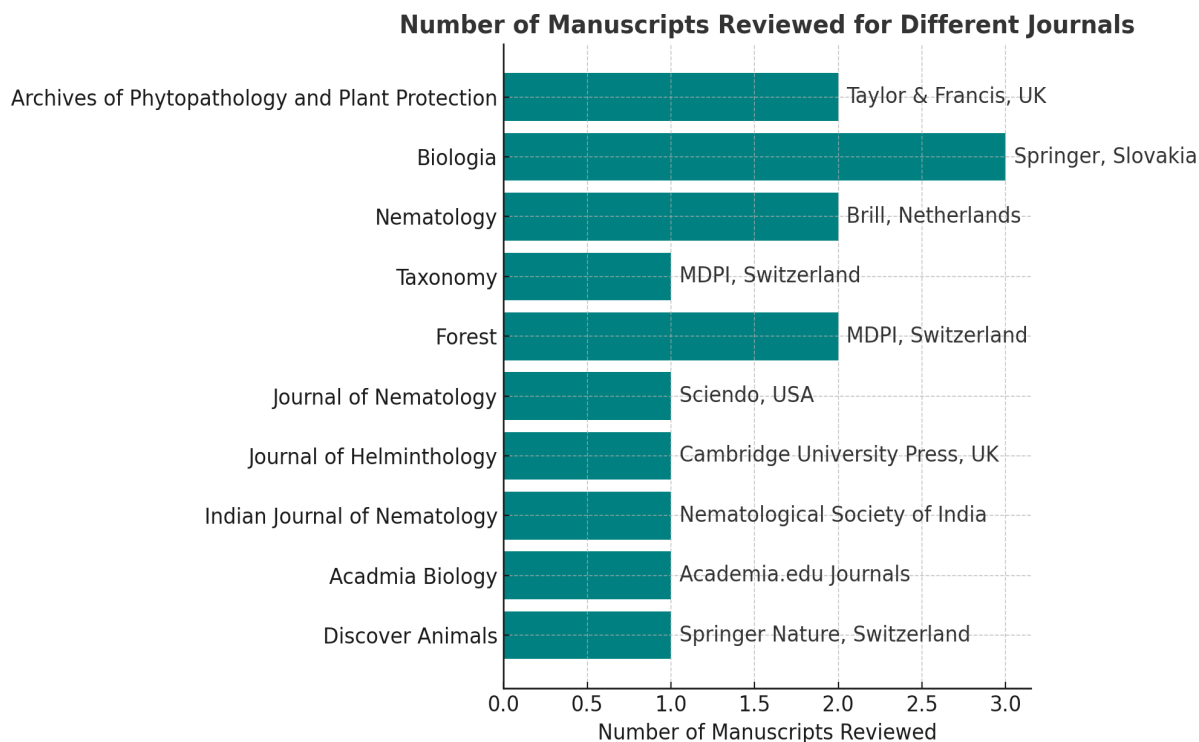
- English
- Hindi
- Urdu
- Marathi

Memberships in Scientific Societies

1. **Society of Nematologists (SON)**, Las Cruces, New Mexico is an international organization formed to advance the science of nematology in both its fundamental and economic aspects. The Society acts as an agency for the exchange of information, holds regular meetings, promotes and extends knowledge in all phases of nematology.
2. **Math Tech Thinking Foundation (MTTF)** is an international association for Science, Technology, Engineering, and Mathematics professionals. The main aim of MTTF is to provide a supportive environment for science, technology, engineering, and mathematics (STEM) professionals to facilitate the exchange of knowledge and innovative ideas.
3. **Indian Society of Agronomy (ISA)**, Indian Council Agricultural Research

(ICAR) Pusa, New Delhi-110012 is an organization to encourage research in the scientific and practical aspects of the soil, crops, and soil-crop relationship in itself.

Role as a Reviewer for Scientific Journals



Publications

Research articles:

1. Mahboob, M., Bashir, I., Asif, M., Nazir, N., Jahan, R., & Tahseen, Q. (2024). Characterization of *Achromadora porosa* sp. n. (Chromadorida: Achromadoridae) from the coal mines, with a detailed inference on the phylogeny of the group and the relationships between congeners. *Biologia*, 79(5), 1101-1118.
2. Mir, B. A., Ahmad, A., Farooq, N., Priya, M. V., Siddiqui, A. H., Asif, M., Manzoor, R., Ishqi, H. M., Alomar, S. Y., & Rahaman, P. F. (2023). Increased expression of HPV-E7 oncoprotein correlates with a reduced level of pRb proteins via high viral load in cervical cancer. *Scientific Reports*, 13, 15075.
3. Mahboob, M., Bashir, I., Asif, M., Nazir, N., Jahan, R., & Tahseen, Q. (2022). Molecular and phenotypic characterization of two cryptic species of the predatory genus *Mononchoides* Rahm, 1928 (Rhabditida: Diplogastridae) and their congeneric affinities. *Journal of Helminthology*, 96, 1–22.
4. Asif, M., Jahan, R., & Mahboob, M. (2024). Biological indicative assessment of nematodes in evaluating different terrestrial habitats. *International Journal of Applied Agricultural Sciences*, 2582-8053.
5. Asif, M., Mahboob, M., Rehman, P. F., & Tahseen, Q. (2024). Delving into the diversity of genus *Ironus* Bastian, 1865 with special reference to *Ironus dentifurcatus*

- Argo & Heyns, 1972 (Ironidae: Enoplida), collected from coal mines. *Nematology*, 26(6), 673-688.
6. Mahboob M, Bashir I, Asif M, Nazir N, Jahan R, Tahseen Q (2022). Molecular and phenotypic characterization of two cryptic species of the predatory genus *Mononchoides* Rahm, 1928 (Rhabditida: Diplogastridae) and their congeneric affinities. *Journal of Helminthology* 96, e41, 1–22.
 7. Tahseen, Q., Ahlawat, S., Asif, M. and Mustaqim, M. (2016). Description of a new species of *Acrostichus* Rahm 1928 (Nematoda: Diplogastridae) from India with a note on its position and relationship with the congeners. *Biodiversity Data Journal* 4: e8029. Doi 10.3897/BDJ4.e8029.
 8. Deepak, V., Giri, V. B., Asif, M., Dutta, S. K., Vyas, R., Zambre, A. M., Bhosale, H. and Karanth, K. P. (2016). Systematics and phylogeny of *Sitana* (Reptilia: Agamidae) of Peninsular India, with description of one new genus and five new species. *Contributions to Zoology*, 85, 67–111.
 9. Fohad Mabood Husain, Iqbal Ahmad, Mohammad Asif and Qudsia Tahseen. (2013). Influence of clove oil on certain quorum sensing regulated functions and biofilm of *Pseudomonas aeruginosa* and *Aeromonas hydrophila*. *Journal of Biosciences* 38: 1-10.
 10. Asif, M., Prasad, J. S., Khan, R., Somasekhar, N. and Tahseen, Q. (2013). A revision of the genus *Metarhabditis* (Nematoda: Rhabditidae) with description of three known species, a key to the identification of congeners and discussion of their relationships. *Journal of Natural History*, 47(U.K.).
 11. Tahseen, Q., Asif, M., Mustaqim, M., Ahlawat, S. and Bert, W. (2013). Descriptions of ten known species of the superfamily Mononchoidea (Mononchida: Nematoda) from north India with a detailed account on their variations. *Zootaxa*, 3646: 301-335.
 12. Ali, S. S., Shaheen, A., Asif, M., Akhtar, M.H., Pervez, R., Ahmad, R. and Ali, S. (2013). Comparative Performance of Different Nozzles on Deposition of Entomopathogenic Nematodes on Chickpea Leaves. *Advances in Life Sciences*, 2 (1): pp. 66-68.
 13. Akhtar, M.H., Asif, M., Ali, S. S. and Pervez, R. (2012). Performance of different Sprayer nozzles on deposition of infective juveniles of three entomopathogenic nematodes species on pigeon pea. *World journal of Applied Science and Research* 2 (1): pp. 28-31.
 14. Ali, S. S., Asif, M. and Shaheen, A. (2011). *Oscheius nadarajani* Sp. n. (Nematoda: Rhabditida) from Lentil (*Lens culinaris*) Rhizosphere in Unnao District of Uttar Pradesh, India *Trends in Biosciences*, 4 (1): pp. 98-100.
 15. Shaheen, A., Ali, S. S. and Asif, M. (2011). Two New Species of Genus *Oscheius* from Pulses Ecosystem in Uttar Pradesh, India. *Trends in Biosciences*, 4 (1): pp. 82-85.
 16. Ali, S. S., Asif, M., Sirvastava, S. P. and Shankar, P. (2011). First Report on Susceptibility of *Khapra* Beetle (*Trogoderma granarium*) against *Steinernema masoodi* (Ali, et al., 2005) and its *In Vivo* Production. *Trends in Biosciences*. 4 (1): pp. 140-141.
 17. Ali, S. S. and Asif, M. (2011). Comparative Field Efficacy of Dust Formulation and Liquid Formulation of *Steinernema seemae* Based Biopesticide and other IPM Options against *Helicoverpa armigera* (Hübner) Infesting Chickpea. *Trends in Biosciences*, 4 (1): pp. 35-37.

18. Ali, S. S., Asif, M., Murgan, P. D., Akhtar, M. H. and Shaheen, A. (2010). In-vivo production and Pathogenicity of *Oscheius amsactae* against four agriculturally important insect pest. ***Trends in Biosciences*** 3 (2): pp. 232-233.
19. Ali, S.S., Shaheen, R., Asif, M. and Akhtar, M. H (2009). *Steinernema qazii* sp. n (Nematoda Rhabditidae: Steinernematidae) from Kanpur India. ***Trends in Biosciences*** 2 (1): pp. 59-64.
20. Ahmad, R., Asif, M., Murgan, P. and Ali, S. S. (2009). First Report on the infectivity of *Callosobruchus chinensis* (Linnaeus) by *Oscheius amsactae* (Ali, S. S. et al.,) ***Trends in Biosciences*** 2 (1): pp. 78.
21. Ali, S.S., Asif, M., Duraimurugan, P., Akhtar, M.H., Pervez, R., Shaheen, A. and Ahmad, I. (2009). In vivo production and infectivity of *Oscheius amsactae* (Ali et al., 2007) on four agriculturally important insect pest. ***Trends in Biosciences*** 3 (2): 232-233.

Newsletter articles and Abstract

- a) Mahboob, M., Nazir, N., Asif, M. and Tahseen Q. (2018). Evolution of insect riders: An evolution from Epoch. In National Conference on Impact of Environmental Xenobiotics on Human Health and Biodiversity held at Department of Zoology, Lucknow University, Lucknow, Uttar Pradesh, India on 30-31st March 2018. pp. 70 Abs
- b) Jahan, R., Asif, M., Nazir, N. and Tahseen Q. (2017). Nematodes as bioindicators from Organic-enriched habitats. In International conference on advances in Agriculture and Biodiversity Conservation for Sustainable development held at C. C. S. University, Meerut, Uttar Pradesh, India from 27-28 October, 2017. pp.400
- c) Nazir, N., Asif, M., Mahboob, M., Jahan, R., Mustaqim, M. and Tahseen, Q. (2017). Fig-A microhabitat showing fascinating tri-trophic interaction. In International conference on advances in Agriculture and Biodiversity Conservation for Sustainable development held at C. C. S. University, Meerut, Uttar Pradesh, India from 27-28 October, 2017. pp.420-421
- d) Asif, M., Mustaqim, M. and Tahseen, Q. (2013). Taxonomic studies on Indian species of entomopathogenic genus *Oscheius* and a discussion on other representative species. In National conference on insect diversity and systematics: special emphasis on molecular approaches. Department of Zoology, Aligarh Muslim University, Aligarh. pp. 77-80 Abs.
- e) Pervez, R., Ali, S. S. and Asif, M., (2009). A new species of entomopathogenic nematodes *Steinernema mushtaqi* sp. n. (Nematoda : Rhabditidae : Steinernematidae) from chickpea rhizosphere. In: International Conference on Legumes (ICGL), at Indian Institute of Pulses Research, Kanpur on 14-16th Feb. Abs
- f) Ahmad, R., Ali, S.S., Akhtar, M. H. and Asif, M., (2009) Microbial Biopesticides: Feasibility of their utilization in pulses ecosystem: 5th International Conference on Biopesticides: Stakeholder's Perspectives, New Delhi, pp. 88-89 Abs
- g) Ali, S. S., Ahmad, R., Murgan PD, Asif, M., Akhtar, M.H., and Pervez, R. (2007).

Newsletter, Indian Institute of Pulses Research, Kanpur. 18 (4): 3, New Insect Host
Record of EPN, *Osccheius amsactae*.

Research papers in proceedings:

- a) Ali, S.S., Akhtar, M.H., Shaheen, A., Duraimurugan, P. and Asif, M. (2009). Heat Tolerant Entomopathogenic Nematodes: An Emerging Option for *Helicoverpa armigera* Management in Pulses. National Workshop on Applied Nematology (NWAN–2009). Department of Zoology, Ch. Charan University, Meerut, pp.135-148.
- b) Akhtar, M. H., Asif, M. and Ali, S. S. (2013). Post-foliar spray survival of two entomopathogenic nematodes *Sterinenema seemae* and *Osccheius nadarajni* on chickpea leaves. In proceeding of national conference on insect diversity and systematics: special emphasis on molecular approaches. Department of Zoology, Aligarh Muslim University, Aligarh. pp. 77-80.
- c) Asif, M. and Tahseen Q. (2013). Diversity, abundance and role of nematodes in wetland ecosystem Shekha Jheel, Uttar Pradesh, India. In proceeding of International conference on Faunal Biodiversity and their Conservational Strategies organised by Department of Zoology, Lucknow University, Lucknow.

BOOKS AND BOOKS CHAPTER

1. Nadia Sufyan, Mohammad Asif 2022. Alteration of freshwater ecosystems and its assessment: In the light of nematode community structure. In Ecological Significance of River Ecosystems. Elsevier
2. Asif, M., & Rahaman, P. F. (2024). Beneath the surface: Comparative diversity, abundance, and bio-indicative capabilities of nematode community structure in natural and disturbed habitats. In S. Mukherjee & S. Ray (Eds.), *Nematodes – Ecology, Adaptation and Parasitism*.
3. Ahmad, A. Siddiqui, AA. Asif M. (June 2021). *Non-Chordates with Lab Manual*: Book in Urdu language for B.Sc. I Semester Zoology. (Ahmad A, Ed). Directorate of Distance Education. Maulana Azad National Urdu University, Hyderabad. ISBN: 978-93-80322-75-9:
4. Ahmad, A. Siddiqui AA. Fatima M, Asif M. (March 2022). *Chordates with Lab Manual*: Book in Urdu language for B.Sc. II Semester Zoology. (Ahmad A, Ed). Directorate of Distance Education, Maulana Azad National Urdu University, Hyderabad. ISBN: 978-93-93722-33-1. Ahmad, A. Siddiqui AH, Fatima M, Asif M. (Nov. 2022). *Physiology and Biochemistry with Lab Manual*: Book in Urdu language for B.Sc. III Semester Zoology. (Ahmad A, Ed). Directorate of Distance Education, Maulana Azad National Urdu University, Hyderabad. ISBN: 978-93-95203-16-3.

5. Ahmad, A. Jahan P, Asif M. (May 2023). *Genetics and Evolutionary Biology with Lab Manual*: Book in the Urdu language for B.Sc. IV Semester Zoology. (Ahmad A, Ed). Directorate of Distance Education, Maulana Azad National Urdu University, Hyderabad. ISBN: 978-93-95203-74-6.
6. Ahmad, A. Asif M. Waseem M, (Dec. 2023). *Applied Zoology & Developmental Biology with Lab Manual*: Book in the Urdu language for B.Sc. V Semester Zoology. (Ahmad A, Ed). Directorate of Distance Education, Maulana Azad National Urdu University, Hyderabad. ISBN: 978-81-968517-6-7
7. Ahmad, A. Asif M. Waseem M, Mahboob M, Jahan P. (May 2024). *Animal Biotechnology with Lab Manual*: Book in the Urdu language for B.Sc. VI Semester Zoology. (Ahmad A, Ed). Directorate of Distance Education, Maulana Azad National Urdu University, Hyderabad. ISBN: 978-81-972234-9-5

PATENTS

- *In-vitro* mass production of entomopathogenic nematode *Heterorhabditis indica* Aligarh strain (AL-1) on semi-liquid artificial diet on solid media. **Indian Patent (2015) Application No.609/DEL/2015 A. publication date 03-04-2015.**

PAPERS PRESENTED/ CONTRIBUTED IN CONFERENCES/ SEMINARS

International Conference/Symposium

- Attended and participated in poster presentation, academic and interacting session in “6th Science Conclave 2013” A congregation of Nobel Laureate and Eminent Scientist organized by MHRD-DST and IIT-A Held at IIT, Allahabad from 8th to 14 December 2013.
- Attended and participated in International Symposium and workshop on the “Control of helminths parasites with emphasis on liverfluke” and “Liverfluke: an RNA i workshop” Held on February 11-12, 2013 in the Department of Zoology, AMU, Aligarh.
- International Conference on Grain Legumes: Quality Improvement, Value Addition and Trade at Indian Institute of Pulses Research, Kalyanpur, Kanpur, U.P From 14-16, 2009.

National Conference/Symposium

- National symposium on Legumes for Ecological Sustainability: Emerging Challenges and Opportunities, at Indian Institute of Pulses Research, Kalyanpur, Kanpur, U.P during November 3-5, 2007.
- National Symposium on Biodiversity & Food Security- Challenges & Devising Strategies at Indian Institute of Pulses Research , Kalyanpur, Kanpur U.P. from 10-11 Dec 2011.

- National Conference on Insect Diversity and Systematics: Special Emphasis on Molecular Approaches (NCIDS 2013). Department of Zoology, Aligarh Muslim University, Aligarh.
- National Symposium on “Modern Trends in Life Science Research with Special Emphasis on Comparative Endocrinology. Department of Zoology, Aligarh Muslim University, Aligarh on 10th November 2016.
- Eco Summit 2016. University Eco Club, Cultural Education Centre, Aligarh Muslim University, Aligarh in association with Engineering and Environmental Solutions & M.E.D.J.C.S on 23rd February 2016.
- National Conference on Impact of Environmental Xenobiotics on Human Health and Biodiversity held at Department of Zoology, Lucknow University, Lucknow, Uttar Pradesh, India from 30-31st March 2018.
- Presented a paper in National Urdu Science Congress 2021, School of Sciences, Maulana Azad National Urdu University Hyderabad held on 14 and 15th July 2021.

TRAINING AND WORKSHOP ATTENDED

- Attended **International Workshop on “New and emerging trends in Nematological Research in the 21st century with particular emphasis on plant protection”**. Sponsored by INSA & AMU. Held in the Department of Zoology, Aligarh Muslim University, Aligarh from 26 Feb to 3 March, 2007
- Underwent five days workshop on **“Molecular Phylogenetics” from 1st August to 5th August 2013 organized by Centre for Ecological Sciences, Indian Institute of Sciences, Bangalore**
- Underwent two months summer training from August 2013 to September 2013 on **molecular and morphological taxonomy, phylogeny, barcoding and molecular ecology at Centre for Ecological Sciences, Indian Institute of Sciences, Bangalore**
- Half Day awareness workshop on **“Intellectual Property and Innovation Management in Knowledge Era”** organized by CGPDTM, NRDC and AMU, held on December 7th 2015 at AMU, Aligarh
- Actively participated in Two days Orientation Programme for teaching Faculty of Directorate of Distance Education, on 24th to 25th January organized by STARQ unit, Directorate of Distance Education, Maulana Azad National Urdu University, Hyderabad

